## DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D206-559 Rev. L AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D206-559 REV. 3

REF CANADIAN STC: SH92-17 REF FAA STC: SH1031NE REF LBA STC: 0796/3034 REF JCAB STC: STC-90-TYO REF BRAZIL STC: 2010S10-08

#### 1.0 PURPOSE

The purpose of this Dart Service Instruction is to add the D407-559-115 Bearpaw Kit to this approval. The D407-559-115 Bearpaw Kit is designed to be compatible with D206-642-311/-312/-313/-314/-411/-412/-413/-414 Skidtubes equipped with D206-642-XXX Run-On Landing Wearplates. The D407-559-115 Bearpaw Kit is also compatible with the D206-642-XXX Skidtubes equipped with standard wearplates/wearshoes.

#### 2.0 INSTALLATION

To install D407-559-115 Bearpaw Kit on Dart D206-642-XXX Skidtubes equipped with D206-642-XXX Run-On Landing Wearplates refer to Figures 1 & 2 of this Service Instruction as well as the following:

- 2.1 Jack up the aircraft and ensure the skidtubes are serviceable in accordance with ICA-D206-642.
- 2.2 Position D2432-3 Bearpaw on the aft end of each skidtube so that the bearpaw clamps are located on either side of the aft saddle as shown in Figure 1a 1c of this Service Instruction. The bearpaws should be installed over the run-on landing wearplates.
- 2.3 Attach the D4011-1 Clamps with D4012-1 Cushions using hardware shown in Figure 2 of this Service Instruction. Additional AN960JD416 (or NAS1149D0463J) washers may be installed under the nuts to ensure 1.5-4 threads in safety on the bolts. Although not generally necessary, it is also acceptable to replace the AN4-20A bolts with longer or shorter AN4 bolts, if required.

CAUTION: The torque on the nuts should be limited to 20 in-lb (2.3 Nm)

- 2.4 Lower the aircraft.
- 2.5 Update the aircraft log book to indicate installation of the D407-559-115 Bearpaw Kit and adjust the empty weight and balance record for the rotorcraft with the information given in section 5.0 of this service instruction.

#### 3.0 MAINTENANCE

The D407-559-115 Bearpaw Kit should be maintained in accordance with ICA-D206-559.



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REV.		DESCRIPTION			DATE
DESIGN		AP	DART AER	OSPACE	LTD
DRAWN		AP	HAWKESBURY, ONTARIO, CANADA		NADA
CHECK	ΞD	P	DRAWING NO.		REV. A
MFG. AF	PPR.	N/A	DSI 9624		SHEET 1 OF 4
APPRO	√ED	NA	TITLE		SCALE
DE APP	R.	44	BEARPAW INSTALLATION		NTS
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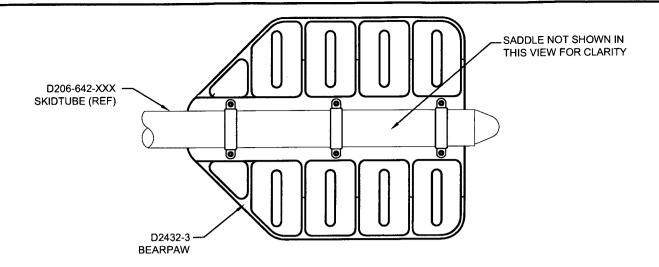
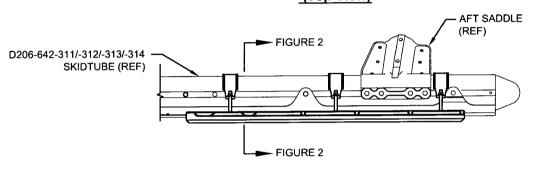


Figure 1a - Bearpaw Location (Top View)



# Figure 1b - Bearpaw Installation (Side View) (Installed on D206-642-311/-312/-313/-314 Skidtubes)

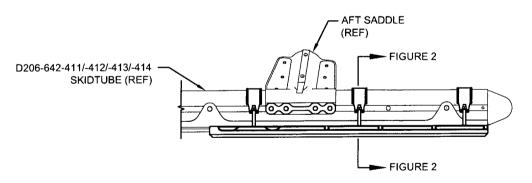


Figure 1c - Bearpaw Installation (Side View) (Installed on D206-642-411/-412/-413/-414 Skidtubes)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

APPROVED

BY:
D. SHEPHERD (DE # 02)

DATE:
12.07.05
CERT. NO.:
SH92-17
ISSUE NO.:
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CHECKED	P	DRAWING NO.	REV. A
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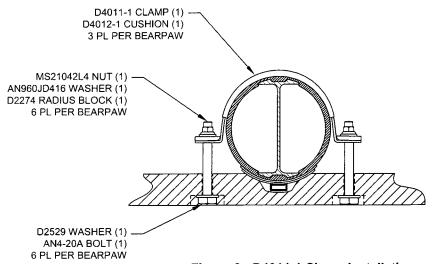


Figure 2 - D4011-1 Clamp Installation

### 4.0 PARTS LIST

QTY -115	PART NUMBER	DESCRIPTION
>	D407-559-115	BEARPAW INSTALLATION
12	D2274	RADIUS BLOCK
12	D2529	WASHER
2	D2432-3	BEARPAW
6	D4011-1	CLAMP
6	D4012-1	CUSHION
12	AN4-20A	BOLT
12	AN960JD416	WASHER (NAS1149D0463J)
12	MS21042L4	NUT

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## **5.0 WEIGHT AND BALANCE**

INSTALLATION	WEIGHT	LATERAL		LONGITUDINAL	
		ARM	MOMENT	ARM	MOMENT
D407-559-115 Bearpaw installation (Bell 407 High Gear)	13.9 lb 6.30 kg	0.0 in 0.0 m	0.0 in-lb 0.0 m-kg	148 in 3.76 m	2057 in-lb 23.69 m-kg
D407-559-115 Bearpaw installation (Bell 206L/407 Low Gear)	13.9 lb 6.30 kg	0.0 in 0.0 m	0.0 in-lb 0.0 m-kg	149 in 3.78 m	2071 in-lb 23.81 m-kg
D407-559-115 Bearpaw installation (Bell 206 L High Gear)	13.9 lb 6.30 kg	0.0 in 0.0 m	0.0 in-lb 0.0 m-kg	157 in 3.99 m	2182 in-lb 25.14 m-kg

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